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DEVELOP BETTER THRESHING, HARVESTING MACHINES;  
NEW COTTON PICKER GATHERS TON PER HOUR

MECHANIZED THRESHING AGGREGATE HALVES LABOR -- Moscow, Moskovskaya Pravda,  
23 Sep 50

The Kolkhoz imeni Stalin has devised an electrically driven threshing aggregate. It consists of an MKE-1100 thresher, a sheaf feeder, sorter and winnower, two conveyers, a chaff blower, and straw intake blower. This arrangement eliminates one of the most labor-consuming operations, the manual feeding of sheaves to the drum of the thresher from the ground or stack.

The chaff is led off 30-40 meters from the aggregate. The mechanized conveyor carries the grain to the winnower and from there to the hopper. Tubes channel the straw to the stack.

The aggregate's five electric motors are powered from a temporary step-down transformer located 20-25 meters from the thresher. Throughout the threshing, the aggregate remains in place while only the chaff blower and the conveying parts of the straw intake blower are turned in different directions as necessary. With this arrangement, 500-600 hectares of grain can easily be threshed without moving the aggregate. Only 15 persons are needed to operate it, whereas prior to this mechanization 34 persons were employed in a similar task.

PRODUCE NEW 3-ROW BEET HARVESTER -- Moscow, Komsomol'skaya Pravda, 6 Oct 50

The Dnepropetrovsk Plant imeni Voroshilov has turned out its first group of three-row beet-harvesting combines, designed by Engineers Korenkov, Yermeyev, and Mel'nikov.

Unlike the old one-row type, the new combines simultaneously dig up the beets, remove the leaves, and place the beets and leaves in separate hoppers. The productivity of the new machine is 2.5-3 times higher than that of the old combine.

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MTS DESIGNS NEW GRAIN CLEANER -- Alma-Ata, Kazakhstanskaya Pravda, 6 Sep 50

A mobile grain cleaner which is able to process 10 tons of grain per hour has been designed at the Bozagirskaya MTS. The machine may be powered by a tractor, combine, or electric meter.

The machine has a centrifugal fan whose disk is made of boiler plate 8-10 millimeters thick and 550 millimeters in diameter and designed for 1,000-1,200 revolutions per minute. The disk holds six blades which are 3-4 millimeters thick, 200 millimeters long, and 180 millimeters wide. The fan is encased in a cylindrical chamber made of boiler plate 3-4 millimeters thick.

In the near future, 150 such machines will be produced. Of these, 70-80 will be made by industrial enterprises within the oblast, including the plant imeni OGPU, the central repair shops, and the Railroad Car Repair Plant. The Komsomol'sk Repair Plant has already produced three such machines.

DESIGN NEW COTTON PICKER -- Moscow, Izvestiya, 1 Sep 50

A new cotton-picking machine of the SKhND type, the result of long labors by Designers V. Krezhemenevskiy and I. Shelkunov, has been produced in Dnepropetrovsk. It is a horizontal-spindle machine, capable of picking cotton from two rows simultaneously at the rate of one ton per hour. The machine is designed to be mounted on the U-1 tractor.

The first group of such machines will be put out in September.

TASHKENT PLANT TURNS OUT NEW COTTON PICKERS -- Kiev, Pravda Ukrainy, 13 Aug 50

The Tashkent Agricultural-Machine Building Plant has begun production of new cotton-picking machines. The first group of such machines has already been dispatched to Turkmenian plantations.

UZBEK MTS AND SOVKHOZES GET COTTON PICKERS -- Moscow, Izvestiya, 14 Sep 50

More than 150 MTS and 15 sovkhozes in Uzbekistan received cotton-picking machines this year.

DESIGNS POTATO-SORTING MACHINE -- Petrozavodsk, Leninskoye Znamya, 27 Sep 50

Senior Agronomist A. I. Vlasov of the Sorevnovaniye Kolkhoz of Mytishchinskiy Rayon has designed a special machine for sorting potatoes. It cleans the potatoes and sorts them into three grades at the rate of 60 tons per working day.

INSTRUMENT MEASURES PLOWING DEPTH -- Moscow, Izvestiya, 29 Sep 50

Formozov, a specialist in the Moscow Oblast Agricultural Administration, has designed an automatic device which, mounted on a tractor, measures plowing depth. When the desired depth has been exceeded, the instrument gives a light or sound signal.

DESIGN NEW CANAL DIGGER -- Pravda Vostoka, 14 Oct 50

The Chirchiksel'mash Plant has built an experimental model of a new towed canal digger.

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INCREASES OUTPUT OF PLOWS, PRUNING SHEARS -- Tbilisi, Zarya Vostoka, 25 Aug 50

The Tbilisi Agricultural Machinery Plant is exerting its main effort toward increasing the output of vineyard plows, pruning shears, and fruit cutters. To expedite production, it has been decided to make plow beams, which used to be cast for the plant by the Tsentrolit Plant, on the premises. This has enabled the plant to turn out 350 plows instead of the 280 planned.

The plant has worked out a new method for the production of pruning shears which enabled it to exceed considerably the output norm for July.

Recently the plant received an order for the production of two experimental models of a new two-row fertilizing machine. To fill this order, it was necessary to produce more than 2,000 different parts.

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